**Classwork 47** Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Two-column proofs** Period:\_\_\_\_Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Failure to show all work and write in complete sentences will result in LaSalle!**

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| 1) Use the Addition Property  Given:  Prove: | 2) Use the Subtraction Property  Given:  Prove:  D  C  B  A |
| 3) Use the Transitive Property  **GIVEN:** *m**A = m**B*  *m**C = m**B*  **PROVE:** *A* *C* | 4) Use Vertical Angles  Given:  Prove:  K  L  M  N  2  1 |

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| 6. At what point does the line y = -2x + 2 cross the x-axis? | 7. Solve for x in the following equation:  y = x2 + 3w |
| 8. What are the roots of the equation x2 - 3x = 18? | 9. x = {-2. 4} is a solution set for what quadratic equation? |
| 10. A circle has a circumference of 10π centimeters. What is the area of that circle, in terms of π? | 11. Find the value of y in the figure below: |